Bia Diagnostics Laboratories

Office: 802-540-0148 | Fax: 802-540-0147
480 HERCULES DR. COLCHESTER, VT 05446

Certificate of Analysis

Company: GMG FARMS LLC
Charlotte, VT 05445

Customer ID: 201216-0

Grower License #: 7122019073444534433

Sample ID: Miskellope OG (Greenhouse)

Lot: 344332020OGH5-MOG

Matrix: Flower-Dry

Date Sampled: NA

Date Received: 12/16/2020

Report Date: 12/21/2020

Date Analyzed: 12/18/2020

Analyst: SCG

Report ID: C201216AD

Cannabinoid Summary

Cannabinoid Profile	LOQ (mg/g)	Concentration (mg/g)	Weight (%)
CBDVA	0.0005	3.77	0.38
CBDV	0.0012	<LOQ	<LOQ
CBDA	0.0008	134.38	13.44
CBGA	0.0008	2.24	0.22
CBG	0.0019	0.80	0.08
CBD	0.0019	3.52	0.35
THCV	0.0021	<LOQ	<LOQ
CBN	0.0013	<LOQ	<LOQ
Δ9-THC	0.0020	0.57	0.06
Δ8-THC	0.0019	<LOQ	<LOQ
THC-A	0.0034	4.58	0.46
CBC	0.0024	1.35	0.13
Total THC		4.59	0.46
Total CBD		121.37	12.14
Total Cannabinoids		151.20	15.12

0.46% **Total THC**	12.14% **Total CBD**
15.12% **Total Cannabinoids**	0.06% **Δ9-THC**
11.95% **Percent Moisture**	1 : 26.5 **THC : CBD Ratio**

Cannabinoids Methodology: High Performance Liquid Chromatography (HPLC) using PerkinElmer FLEXAR™ with Photo Diode Array Detector (PDA)

Total CBD and total THC are calculated values, to account for assumed decarboxylation from the acid form (THCA or CBDA) to the neutral form, causing weight loss of the acid group.

These values are calculated as follows:

Total THC = (THCA x 0.877) + Δ9-THC

Total CBD = (CBDA x 0.877) + CBD

Ratio of Total CBD: Total THC

Reagent Blanks: < LOQs for all analytes

LOQ = The lowest quantity that this method can reliably detect. Any cannabinoid that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

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Analyst: CDF
Report ID: C201216AD

Terpenes Summary

Terpene	LOQ (mg/g)	Results (mg/g)	Weight (%)
α- Pinene	0.010	1.598	0.160
Camphene	0.010	0.067	0.007
β-Myrcene	0.010	2.421	0.242
b-Pinene	0.010	1.393	0.139
3-Carene	0.010	<LOQ	<LOQ
α-Terpinene	0.010	<LOQ	<LOQ
Limonene	0.010	2.724	0.272
ρ-Cymene	0.010	<LOQ	<LOQ
Ocimene	0.010	0.309	0.031
Eucalyptol	0.010	0.026	0.003
ϒ-Terpinene	0.010	0.051	0.005
Terpinolene	0.010	0.279	0.028
Linalool	0.010	1.064	0.106
Isopulegol	0.010	<LOQ	<LOQ
Geraniol	0.010	<LOQ	<LOQ
Caryophyllene	0.010	2.813	0.281
α-Humulene	0.010	1.553	0.155
Trans-Nerolidol	0.010	<LOQ	<LOQ
Cis-Nerolidol	0.010	<LOQ	<LOQ
Guaiol	0.010	0.252	0.025
Caryophyllene Oxide	0.010	0.095	0.010
α-Bisabolol	0.010	0.438	0.044
Total Terpenes		15.083	1.508

11.95%

Percent Moisture

LOQ = The lowest quantity that this method can reliably detect. Any terpene that was not detected is assumed to be less than the stated LOQ (<LOQ).

Terpene Methodology: Headspace Sampler, Gas Chromatography-Mass Spectrometry (GC-MS), using Perkin Elmer Clarus® SQ8 GC MS

Reagent Blanks: < LOQs for all analytes

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Heavy Metal Summary

Heavy Metal Profile	LOQ (ppb)	Concentration (ppb)
Arsenic (As)	0.1	21.9
Cadmium (Cd)	0.1	92.3
Mercury (Hg)	0.1	<LOQ
Lead (Pb)	0.1	44.2

Heavy Metal Methodology: ICP-MS using PerkinElmer NexION® 2000 ICP Mass Spectrometer

Reagent Blanks: < LOQs for all analytes

ppb = parts per billion

LOQ = The lowest quantity that this method can reliably detect. Any heavy metal that was not detected is assumed to be less than the stated LOQ (<LOQ).

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Percent Moisture

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Pesticides/Mycotoxins Summary

Category II Residual Pesticide	LOQ (ppb)	Concentration (ppb)
Abamectin	10.0	<LOQ
Acephate	1.0	<LOQ
Acequinocyl	1.0	<LOQ
Acetamiprid	1.0	<LOQ
Azoxystrobin	1.0	<LOQ
Bifenazate	1.0	<LOQ
Bifenthrin	1.0	<LOQ
Boscalid	1.0	<LOQ
Carbaryl	1.0	<LOQ
Chlorantraniliprole	1.0	<LOQ
Clofentezine	1.0	<LOQ
Cyfluthrin	10.0	<LOQ
Cypermethrin	10.0	<LOQ
Diazinon	1.0	<LOQ
Etoxazole	1.0	<LOQ
Fenpyroximate	1.0	<LOQ
Flonicamid	1.0	<LOQ
Hexythiazox	1.0	<LOQ
Imidacloprid	1.0	<LOQ
Kresoxim-methyl	1.0	<LOQ
Malathion	1.0	<LOQ
Metalaxyl	1.0	<LOQ
MGK-264	1.0	<LOQ
Methomyl	1.0	<LOQ
Myclobutanil	1.0	<LOQ
Naled	1.0	<LOQ
Oxamyl	1.0	<LOQ
Permethrin	1.0	<LOQ
Phosmet	1.0	<LOQ
Piperonylbutoxide	1.0	<LOQ
Prallethrin	1.0	<LOQ
Propiconazole	1.0	<LOQ
Pyrethrin I	1.0	<LOQ
Pyrethrin II	1.0	<LOQ
Pyridaben	1.0	<LOQ
Spinosyn A	1.0	<LOQ
Spinosyn D	1.0	<LOQ
Spiromesifen	1.0	<LOQ
Spirotetramat	1.0	<LOQ
Tebuconazole	1.0	<LOQ
Thiamethoxam	1.0	<LOQ
Trifloxystrobin	1.0	<LOQ

Category II Mycotoxin	LOQ (ppb)	Concentration (ppb)
Ochratoxin A	2.0	<LOQ
Aflatoxin B1	0.2	<LOQ
Alfatoxin B2	1.0	<LOQ
Alfatoxin G1	0.2	<LOQ
Alfatoxin G2	1.0	<LOQ

Category I Residual Pesticide	LOQ (ppb)	Concentration (ppb)
Aldicarb	1.0	<LOQ
Carbofuran	1.0	<LOQ
Chlorfenpyr	1.0	<LOQ
Chlorpyrifos	1.0	<LOQ
Daminozide	10.0	<LOQ
DDVP (Dichlorvos)	1.0	<LOQ
Dimethoate	1.0	<LOQ
Ethoprop(hos)	1.0	<LOQ
Etofenprox	1.0	<LOQ
Fenoxycarb	1.0	<LOQ
Fipronil	25.0	<LOQ
Imazalil	1.0	<LOQ
Methiocarb	1.0	<LOQ
Methyl parathion	1.0	<LOQ
Paclobutrazol	1.0	<LOQ
Propoxur	1.0	<LOQ
Spiroxamine	5.0	<LOQ
Thiacloprid	1.0	<LOQ

11.95%

Percent Moisture

LOQ = The lowest quantity this method can reliably detect. Any pesticide or mycotoxins that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

ppb = parts per billion

Pesticides/Mycotoxin Methodology: Liquid Chromatography with Tandem Mass Spectrometry using PerkinElme QSight® LX50 UHPLC and QSight 220 Mass Spectrometer

(802) 540-0148 laboratory@biadiagnostics.com